

IN THE CLAIMS

Please amend the claims to read as follows:

Listing of Claims

1. (Canceled).

2. (Currently Amended) The micropump according to claim ~~8 + or 43~~, wherein; said pump structural material is formed by stacking a first structural material and a second structural material one on top of the other;

an indentation section is formed in at least either the first or second structural material;  
and

said first and second structural materials are stacked so as to oppose each other, thereby constituting said reaction chamber.

3. (Currently Amended) The micropump according to claim ~~8 + or 43~~, wherein;  
said pump structural material is formed by stacking said structural material, a second structural material, a first intermediate structural material, and a second intermediate structural material;

an opening to be used for attachment of at least said reaction agent is formed in said first intermediate structural material; and

at least an opening which is to serve as ~~a~~ said channel is formed in said second intermediate structural material.

4. (Currently Amended) The micropump according to claim 8 ~~1-er-43~~, wherein:  
said pump structural material is formed by stacking said structural material, a first  
structural material, and a second structural material one on top of the other, and  
said reaction initiation component is provided within an said indentation section of said  
first structural material.

5. (Canceled).

6. (Currently Amended) The micropump according to claim 5, wherein, when A  
micropump comprising:  
a pump structural material having a reaction chamber formed therein;  
a reaction agent which is housed in said reaction chamber and produces a gas of  
predetermined pressure; and  
a reaction initiation component which is disposed beside said reaction agent and causes  
said reaction agent to produce a gas, wherein:  
said pump structural material and said reaction initiation component are stacked one on  
top of the other,  
said reaction agent is liquid, said agent is housed in a microcapsule and said microcapsule  
is loaded in said reaction chamber,  
said pump structural material is formed by stacking a first structural material and a  
second structural material one on top of the other,

an indentation section is formed in at least either the first or second structural material,  
said first and second structural materials are stacked so as to oppose each other, thereby  
constituting said reaction chamber,

said reaction agent is housed in a first indentation section of said first structural material  
and covered with a sheet material,

the reaction agent is formed from first and second liquids, said first and second liquids are housed in said first indentation section in a separated state, ; and

said reaction initiation component releases said first and second liquids from a separated state, to thereby cause said liquids to react with each other.

Claim 7 (Cancelled).

8. (Currently Amended) The micropump according to claim 1 or 43, wherein, when A  
micropump comprising:

a pump structural material having a reaction chamber formed therein;  
a reaction agent which is housed in said reaction chamber and produces a gas of  
predetermined pressure; and  
a reaction initiation component which is disposed beside said reaction agent and causes  
said reaction agent to produce a gas, wherein;  
said pump structural material and said reaction initiation component are stacked one on  
top of the other,

said reaction agent is liquid, said agent is housed in a microcapsule and said microcapsule is loaded in said reaction chamber,

said reaction agent is formed from first and second liquids, said first liquid is housed in a microcapsule and dispersed in said second liquid.

9. (Currently Amended) A micropump comprising:

a pump structural material having a reaction chamber formed therein;

a reaction agent which is housed in said reaction chamber and produces a gas of predetermined pressure; and

a reaction initiation component which is disposed beside said reaction agent and causes said reaction agent to produce a gas, wherein:

said pump structural material and said reaction initiation component are stacked one on top of the other,

said reaction agent is liquid, said agent is housed in microcapsules and said microcapsules are loaded in said reaction chamber, and

    The micropump according to claim 1 or 43, wherein, when said reaction agent is formed from said first and second liquids, said first liquid is housed in a first microcapsule, and said first microcapsule is encapsulated in a second microcapsule along with said second liquid.

10. (Currently Amended) The micropump according to claim 1 or 43, wherein, when A micropump comprising:

a pump structural material having a reaction chamber formed therein;

a reaction agent which is housed in said reaction chamber and produces a gas of predetermined pressure; and

a reaction initiation component which is disposed beside said reaction agent and causes said reaction agent to produce a gas, wherein:

said pump structural material and said reaction initiation component are stacked one on top of the other,

said reaction agent is liquid, said agent is housed in microcapsules and said microcapsules are loaded in said reaction chamber,

    said reaction agent is formed from first and second liquids, said first liquid and said second liquid are mixed together while said first liquid is encapsulated in a first microcapsule and second liquid is housed in a second microcapsule.

11. (Canceled).

12. (Currently Amended) The micropump according to claim § 4-or-43, wherein a gas derived from reaction of said reaction agent is an inactive gas.

13. (Currently Amended) The micropump according to claim § 4-or-43, wherein said reaction agent is a noncontaminating chemical.

14. (Currently Amended) The micropump according to claim § 4-or-43, wherein said reaction agent is formed from a plurality of small reaction agents.

15-43. (Canceled).

44. (New) A micropump comprising:

a pump structural material having a reaction chamber formed therein;

a reaction agent which is housed in said reaction chamber and produces a gas of predetermined pressure;

reaction initiation component which is disposed beside said reaction agent and causes said reaction agent to produce a gas; and

a channel which is provided in said pump structural material and guides said gas of predetermined pressure produced by said reaction agent to an outlet from said reaction chamber, wherein:

said pump structural material and said reaction initiation component are stacked one on top of the other,

said reaction agent is liquid, said agent is housed in a microcapsule and said microcapsule is loaded in said reaction chamber, and

said reaction agent is formed from first and second liquids, said first liquid is housed in a microcapsule and dispersed in said second liquid.

45. (New) A micropump comprising:

a pump structural material having a reaction chamber formed therein;

a reaction agent which is housed in said reaction chamber and produces a gas of predetermined pressure;

reaction initiation component which is disposed beside said reaction agent and causes said reaction agent to produce a gas; and

a channel which is provided in said pump structural material and guides said gas of predetermined pressure produced by said reaction agent to an outlet from said reaction chamber, wherein:

said pump structural material and said reaction initiation component are stacked one on top of the other,

said reaction agent is liquid, said agent is housed in microcapsules and said microcapsules are loaded in said reaction chamber, and

said reaction agent is formed from first and second liquids, said first liquid is housed in a first microcapsule, and said first microcapsule is encapsulated in a second microcapsule along with said second liquid.

46. (New) A micropump comprising:

a pump structural material having a reaction chamber formed therein;

a reaction agent which is housed in said reaction chamber and produces a gas of predetermined pressure;

reaction initiation component which is disposed beside said reaction agent and causes said reaction agent to produce a gas; and

a channel which is provided in said pump structural material and guides said gas of predetermined pressure produced by said reaction agent to an outlet from said reaction chamber, wherein:

    said pump structural material and said reaction initiation component are stacked one on top of the other,

    said reaction agent is liquid, said agent is housed in microcapsules and said microcapsules are loaded in said reaction chamber, and

    said reaction agent is formed from first and second liquids, said first liquid and said second liquid are mixed together while said first liquid is encapsulated in a first microcapsule and second liquid is housed in a second microcapsule.